With an expansive feature set and remarkable durability, the Epson FX-2190 impact printer offers the flexibility required for critical daily print requirements. Powerful, yet easy to use, this 9-pin, wide-carriage workhorse boasts an MTBF rating of 20,000 power-on hours (POH) and speeds of up to 680 cps.

An extremely reliable, high-value performer, the Epson FX-2190 provides Parallel, USB, and additional connectivity options for seamless integration. And, it includes Epson Remote Configuration Manager™ software for easy printer setup and simple setting selections via most Windows® operating systems. Ideal for rugged environments, this robust printer is the perfect drop-in replacement for the Epson FX-1180/1180+/2180 or the Okidata® Microline® 321/321 Turbo.

The high-speed Epson FX-2190 races through forms up to 7 parts thick and 16.5" wide through four convenient paper paths. Its easy-to-install 12 million character ribbon cartridge boosts productivity and ensures a low cost per page, while its 400 million character print head life offers added dependability.

Complete with a newly designed control panel featuring a lock-out mode and other intuitive functions, this versatile product is the ideal solution for demanding print environments. And, as part of a comprehensive three-year warranty, it's backed by superior technical support from the world leader in impact printing.

Key Features

High-speed 9-pin printing
- Speeds through multipart forms, reports, labels, and more at up to 680 cps

Extreme reliability in demanding print environments
- Offers an MTBF rating of 20,000 POH (25% duty cycle) and a 400 million character print head life

User-friendly setup and operation
- Facilitates easy printer configuration using a newly designed control panel or its Windows-based Epson Remote Configuration Manager

Easy system integration
- Provides resident Epson, IBM® and Microline printer languages for increased compatibility
- Includes standard Parallel and USB connections, plus an additional slot for optional interface cards

Easy-to-install 12 million character ribbon cartridge
- Ensures a lower cost per page, and reduces the need for frequent user intervention

Advanced paper handling capabilities
- Provides four convenient paper paths to accommodate cut sheet paper and continuous forms up to 7 parts thick and 16.5" wide

Standard three-year warranty
- Includes access to Epson's superior technical support

The wide-format solution for easy integration and maximum productivity

Epson FX-2190

Sales Guide

EPSON®

IMPACT PRINTER

FX-2190

Questions and Answers

What is the target market for the Epson FX-2190?

The Epson FX-2190 is the latest offering in Epson's legendary line of serial impact dot matrix printers, replacing both the popular Epson FX-1180+ and the Epson FX-2180. The Epson FX-2190 is an industrial strength, VAR-class printer designed for easy integration into a variety of mission critical user applications. Its extreme reliability, low cost of operation, and flexible forms handling capabilities make it the printer that businesses can rely on. And, with the flexibility to perform in various operating platforms and environments, the Epson FX-2190 is a product VARs can trust for easy system integration and reduced maintenance costs.

What are the most common industries in which the Epson FX-2190 would be used? For what types of applications?

- Wide-format applications – Forms that require up to 16.5" wide printing
- Warehousing/transportation – Tickets, inventory reports, and shipping documents (i.e. labels, bills of lading, and packing slips)
- Manufacturing – Labels, bar codes, schedules, and inventory reports
- Point of sale – Receipts and invoices
- Financial/accounting – Month-end reports, checks, and spreadsheets
- Purchasing – Purchase orders and acknowledgments
- Service – Estimate forms, receipts, and work orders
- Medical – Admittance/discharge forms, insurance forms, after-care instructions, lab reports, and labels

What are the key selling points of the Epson FX-2190?

- Ease of operation: A newly designed control panel, field-upgradeable Flash ROM, and Epson Remote Configuration Manager software greatly simplify the setup and on-going maintenance of the Epson FX-2190.
- Performance: With print speeds of up to 680 characters per second and the ability to handle forms up to 7 parts thick and 16.5" wide, the Epson FX-2190 delivers industry-leading performance from a 9-pin, 136-column impact printer.
- Durability: An impressive MTBF rating of 20,000 POH and a standard three-year product warranty make the Epson FX-2190 an easy, worry-free choice for VARs and end users alike.

What improvements does the Epson FX-2190 offer over the Epson FX-1180+ and Epson FX-2180?

The Epson FX-2190 offers several key improvements over its predecessors. For details, see the Family Comparison Chart.

What makes the Epson FX-2190 so easy to use?

The Epson FX-2190 includes several features designed to simplify operation for end users and the VARs who support them. The first is its newly designed control panel. The Epson FX-2190 makes it easier than ever to configure the printer via the front panel controls. Users can access menu settings quickly and easily without having to power on the printer.

Additionally, the Epson FX-2190 is the first Epson printer to include Epson Remote Configuration Manager, a Windows-based software program designed to simplify the setup process, allowing users to do so from their PC with a simple click of the mouse.

What benefits does the Epson FX-2190's Flash ROM provide?

The Flash ROM is designed to support VARs who are managing the installation of large quantities of impact printers. Flash ROM capability allows VAR service organizations to upgrade Epson FX-2190 printer firmware to ensure compatibility between the printer and their proprietary software on behalf of their customers. Epson custom firmware solutions can be obtained by contacting Epson product management.

What is the Epson Remote Configuration Manager?

Epson Remote Configuration Manager (RCM) is a software program that allows users to bypass the conventional method of selecting user settings (via the control panel) by creating unique configuration files that can be used to update the printer through a Parallel, Serial, USB, or network interface. The true value of Epson RCM will be realized by users who have numerous printers installed, some of which may be dedicated to one type of application, such as receipts, while others may be dedicated to label printing. In this scenario, the user can create configuration files containing the unique settings required by each application (such as page length, printer language, auto tear off, etc.). As they install additional printers, they can quickly configure those printers for the intended application by using the configuration files previously created and saved to their PC.

Epson RCM is supported by Windows 95, 98, Me, 2000 and NT 4.0. Epson RCM is not currently compatible with Windows XP.

Does the Epson FX-2190 provide an Okidata Mode?

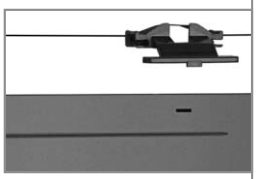
The Epson FX-2190 includes an Okidata Mode that greatly simplifies installation for existing Okidata Microline-321Turbo users, and allows VARs to easily transition those customers to the superior performance of the Epson FX-2190. With the Okidata Mode enabled, the Epson FX-2190 serves as a drop-in replacement for the Okidata ML-321T in its existing environment, using existing drivers. Okidata Mode enhances compatibility with the Okidata ML-321T in several unique ways, including the following: the default emulation is IBM PPDS (Okidata Microline emulation is available), the printable-area margins are similar to the Okidata ML-321T's, and the Paper Out Override and 6/8 lpi settings are selectable.

What operating systems and environments are supported by the Epson FX-2190?

The Epson FX-2190 is compatible with Windows 95, 98, Me, 2000, XP and NT 4.0 operating systems. With regard to printer control code languages, the Epson FX-2190 comes with Epson ESC/P® emulation, plus IBM PPDS emulation, which enables the printer to work within most IBM environments. Okidata Microline emulation is also available when the printer is set in Okidata Mode. In addition to standard Parallel and USB interfaces, optional Coax, Twinax, Serial and Ethernet boards are available to connect the Epson FX-2190 to virtually any network.

Does the Epson FX-2190 use the same ribbon cartridge as the Epson FX-1180+ and the Epson FX-2180?

The Epson FX-2190 features a new easy-to-install, high-yield ribbon cartridge. While the ribbon cartridge is not backwards-compatible with the Epson FX-1180/1180+/2180, it results in an extremely low cost per page, and minimizes user intervention.



Family Comparison

Feature	Epson FX-1180+	Epson FX-2180	Epson FX-2190
Maximum Speed	564 cps	568 cps	680 cps
Standard Interfaces	USB, Parallel	Parallel, Serial	USB, Parallel
Copy Capacity/Forms Handling	6-part	7-part	7-part
Printer Languages	Epson ESC/P, IBM PPDS, Okidata Microline*	Epson ESC/P, IBM PPDS	Epson ESC/P, IBM PPDS, Okidata Microline*
Ribbon Life	5 million characters	7.5 million characters	12 million characters
Tractor Sets	1**	2	1**
Safety Cover	No	Yes	Yes
Flash ROM	No	No	Yes
MTBF Rating	12,500 POH	10,000 POH	20,000 POH
Sound Level	53 dBA	55 dBA	55 dBA
Print Head Life	200 million characters	300 million characters	400 million characters
Warranty	2 Year	2 Year	3 Year

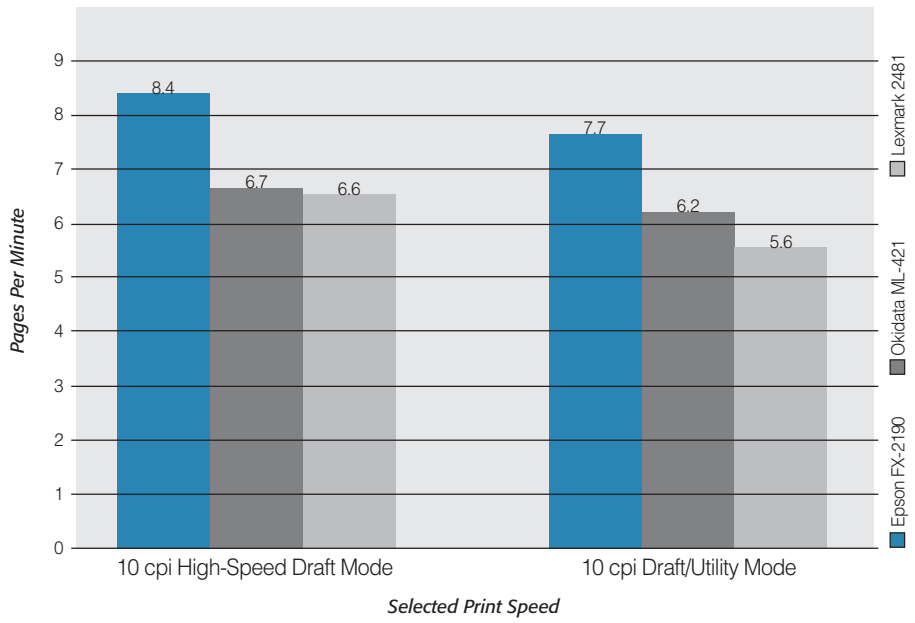
* Microline emulation available in Okidata mode only
** Second tractor set available as an option

Competitive Comparison

Feature	Okidata Microline - 421	Lexmark 2481	EPSON FX-2190
Maximum Speed	570 cps	510 cps	680 cps
Standard Interfaces	USB, Parallel	USB, Parallel	USB, Parallel
Copy Capacity/Forms Handling	6-part	6-part	7-part
Ribbon Life	4 million characters	4 million characters	12 million characters
MTBF Rating	20,000 POH	12,500 POH	20,000 POH
Print Head Life	200 million characters	200 million characters	400 million characters
Warranty	3 Year	2 Year	3 Year

Printer Throughput Test

Printer Throughput Test - ISO/IEC 10561 Letter Pattern



Advanced print head design provides unmatched burst speed, allowing the Epson FX-2190 to maximize performance by consistently performing at or near top speeds. Standardized ISO 10561 throughput tests illustrate how Epson's superior technology results in faster printing and greater print volume over time. Test conducted by Seiko Epson Corporation.

Ordering Information

Epson FX-2190 and Accessories

Product Code	Description	UPC Code
C11C526001	Epson FX-2190 Impact Printer	0 10343 84806 1
S015335	Ribbon Cartridge	0 10343 60510 7
C800211	Additional Push/Pull Tractor Unit	0 10343 80011 3
C806391	Single Bin Cut Sheet Feeder	0 10343 80022 9
C806401	High Capacity Cut Sheet Feeder	0 10343 80023 6
C823051	Serial Interface Board	0 10343 07003 5
C823071	32KB Serial Interface Board	0 10343 07004 2
C823121	LocalTalk Interface Board	0 10343 81167 6
C823141	Coax Interface Board	0 10343 80016 8
C823151	Twinax Interface Board	0 10343 80017 5
C823452	Bidirectional Parallel Interface Board	0 10343 81245 1
C12C823912	EpsonNet Multiprotocol 10/100 Base-TX Type-B Ethernet Print Server	0 10343 83773 7

Packing Specifications

Epson FX-2190

Single carton dimensions (L x W x H)	28" x 18.3" x 10.7"
Single carton weight	24.5 lb
20 ft container	231
Pallet quantity	11
40 ft container	483
Pallet quantity	23

Printing Method
9-pin, serial impact dot matrix

Print Direction
Bidirectional logic seeking for text and graphics printing. Unidirectional text or graphics printing can be selected using software commands.

Print Speed

Ultra Speed Draft	680 cps (12 cpi) 566 cps (10 cpi)
High Speed Draft	559 cps (10 cpi)
Draft	419 cps (10 cpi)
Near Letter Quality	104 cps (10 cpi)

(Note: Normal print speed is achieved when printer safety cover is fully closed)

Character Sets
13 character tables
13 international character sets

Resident Bitmapped Fonts

Ultra Speed Draft	10, 12 cpi
High Speed Draft	10, 12, 15, 17, 20 cpi
Draft	10, 12, 15, 17, 20 cpi
NLQ (Roman/Sans Serif)	10, 12, 15, 17, 20 cpi, proportional

Column Width

10 cpi	136
12 cpi	163
15 cpi	204
17 cpi	233
20 cpi	272

Bar Code Fonts
EAN-13, EAN-8, Interleaved 2 of 5, UPC-A, UPC-E, Code 39, Code 128, POSTNET, Codabar (NW-7), Industrial 2 of 5, Matrix 2 of 5

Formatting
1/6" or programmable in 1/432" increments
Line Spacing: 6 lines per inch default
(8 lpi option available on FX-2190 Okidata Mode only)

Paper Feed Mechanism

Feeding method	Friction feed (front, rear) Push tractor (front, rear) Pull tractor (front, bottom, rear) Push and pull tractor*(front, rear) Cut sheet feeder (optional) Roll paper holder (optional)

Paper Feed Speed
62 millisecond per 1/6"
5" per second continuous feed

Paper Path

Manual insertion	Front or rear in, top out
Cut sheet feeder	Rear in, top out
Tractor	Front, rear or bottom in, top out
Pull/push tractor	Front or rear in, top out

Input Buffer
128KB

Software Drivers
Windows 95, 98, Me, 2000, XP and NT 4.0

Interface
Bidirectional Parallel (IEEE 1284 Nibble Mode supported)
USB 1.1
Type-B slot for optional interface cards

Printer Language
Epson ESC/P
IBM PPDS
Okidata Microline (FX-2190 Okidata Mode only)

Paper Handling
Forms: continuous multipart, original plus 5 carbonless copies, 1 + 6 copies with pull tractor, maximum thickness .018"

Width	
Single sheets	3.9" to 16.5"
Continuous	4.0" to 16.0"
Cut-sheet feeder	7.2" to 16.5"
Length	
Single sheets	3.9" to 14.3"
Continuous	4.0" to 22.0"
Cut-sheet feeder	10.1" to 14.0"
No. 6 envelopes	6.5" x 3.6"
No. 10 envelopes	9.5" x 4.1"
Labels	2.5" x 0.94" (minimum)
Roll paper	8.5" width

Sound Level
55 dBA (ISO 7779 pattern)

Power Requirements

Rated voltage	100 to 240V
Input voltage range	90 to 264V
Rated frequency range	50 to 60 Hz
Input frequency range	49.5 to 60.5 Hz

Physical Dimensions

Height	6.1"
Width	23.2"
Depth	13.8"
Weight	21.2 lb

Control Panel Functions
Font, pitch, pause, tear off, bin selection, line feed, form feed, load, eject, micro adjust, top-of-form adjustment, panel lockout, reset, menu, default setting selection

Reliability

Total print volume	52 million lines (except print head)
MTBF	20,000 POH (25% duty cycle)
Print head life	400 million characters at 14 dots/character
Ribbon life	12 million characters at 14 dots/character

Warranty
Three-year limited warranty in the U.S. and Canada

*Additional tractor unit required

EPSON®

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Epson Canada, Ltd.
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